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ALLOCATION PROBLEMS OF SECOND AND THIRD CHANNEL FM RADIO STATIONS (LPFM) IN THE VICTORIA, TEXAS, RADIO MARKET

SUBMITTED AS ADDENDUM TO REPLY COMMENTS IN RM-9242 BEFORE THE FEDERAL COMMUNICATIONS COMMISSION

- !. The exhibit was done by hand held calculator and the curves of §73.333 of 47 CFR Ch. I (10-1-97 Edition) The actual calculations took over three weeks of work to devise, utilize mathematical models, and finally utilize. All figures are considered to be real and to the best of the ability of commentator John J. (Joe) Tibiletti accurate. No higher tool was used than a ruler, hand held calculator, plastic compass, and french curve with a pencil. Should any tardiness be experienced in their reception in same docket commentator wishes to beg pardon of proper atuthorities for reason as stated in this paragraph. The other part of the reply comment was mailed priority mail last week this section was not available for mailing due to the holiday weekend. All efforts are being made to prepare this document for proper timely reception by the Commission.
- 2. Some comments first on the order of presentation and its contents as to how and wherefore is included. The RM-9242 contained very sketchy data as to coverage from various configurations of tower and power -- in miles, while the Commission's curves are now and for some five or more years have been in metric with meters and kilometers. It was necessary to re-cast these in usable form in order to utilize the curves of FM wave propagation of §73.333 and then tabulated. Then several stations in the market most familiar to commentator were selected as "victim stations," that is to say they were chosen as possible stations to suffer inter-

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ference from the so-called proposed low power stations. Then several of of power level stations proposed by RM-9242 were chosen as typical and most summarily of nuisance value to these existing stations. Then two available locations in the city of Victoria were chosen of the type and city location that most likely a new low power applicant would choose.

- 3. A table is enclosed for typical low power "FM stations" and their requisite contours in decibel units were presented. The contours are defined in §74.1204 Protection of FM broadcast stations and FM translators. A copy of this section is enclosed herein. Then using the 60 dbu contours of the two stations (victims) a distance required from their transmitters is presented for both third and second adjacent channels.
- 4 The two stations selected were KVLT (class A 6kilowatt directional) with a transmitter at the south east city limits of the city of Victoria, Texas, and the station of commentator located some three miles northwest of the south-west city limits of the city. KTXN (class Cl 100 kilowatt) is located on commentator's property.
- 5. Two potential sites for low power FM stations were selected. One is the site of Walmart (herein Walmart) and the Texas Department of Public Safety an actual tower in use. The other more in the center of the city is a building occupied by Norwest Banks (herein Norwest) with a height comporable to use by a 100 foot station (30 meters).
- 6. Facilities for the low power stations were chosen as follows.
 Assuming that applicant-operator to be wished to maximize coverage,

to serve the city of Victoria, Texas, the following configurations were chosen:

WALMART 3 kilowatts and 328 feet (100 meters)

NORWEST 1 kilowatt and 150 feet (46 meters) and alternatively for KTXN considerations only .1 kilowatt and 100 feet (30 meters).

- 7. The two victim stations KVLT and KTXN are both locally owned by owner-operators who are un-affiliated with any other station and would most be affected by the operations of low power FM stations on the second and third adjacent channels.
- 8. An index is provided herein and comments and conclusions on each exhibit are added where there is a need.

John J. (Joe) Tibiletti

Victoria, Texas May 23, 1998

Table One

Typical Low Power stations and classes' facilities as proposed in RM-9242 and comments as to compliance to §74.1204 (see enclosed). Station KTXN has an average distance of 28.5 miles (45 kilometers) to its 60 dbu contour, while KVLT has an average distance of 16.4 miles or (26 kilometers) to its requisite 60 dbu contour.

Per RM-9242 (Proponent Skinner) requisite distance classification LPFM stations from station to achieve §74.1204								on to	
Watts Height	100 dbu 100 mv/m	80 dbu 10 mv/m	70 dbu 3.16 mv/m	•	54 dbu .5 mv/m	40 dbu .1 mv/m	34 dbu .05 mv/m ²	60 dbu cle	
km (mi) 2nd adjacent channel LPFM-1 classification per petition of RM-9242 60 dbu + 80 dbu									0 dbu
50 100' (30M	 1)	1.5 (.93)	2.7 (1.67)	4.75 (2.95)	6.25 (3.88)	14.1 (8.76)	(13.3) 2d	3rd adjacen 60 dbu + 1 1 27.9(17.3) 1 26 (16.1)	00dbu 46.5(28.8)
100 100'(30M)	.088 (.0 54)	1.8 (1.1)	3.2 (1.98)	6 (3.72)	10.4 (6.46)	18.75 (11.65)		1 27.8(17.3) 1 26.1(16.2)	
1000 150'(52m)	1.15 (.71)	3.8 (2.4)	7.0 (4.4)	12.9 (8.0)	16.25 (10.1)	45 (28.0)		1 29.8(18.5) 1 27.2(16.9)	
1000 328'(100M	1.7 ()(1.1)	5.8 (3.6)	10 (6.2)	18 (11.2)	45 (28.0)	60 (37.3)		1 31.8(19.8) 1 27.7(17.2)	
3000 328'(100M	2.17 ()(1.3) assification	7.6 (4.7)	13.6 (8.5)	24.3 (15.1)	36 (22.4)	76 (47.2)		1 33.6(21.0) 1 28.2(17.5)	, ,
1 32'(10M)			.88 (.55)	1.8 (1.11)	2.1 (1.3)	7.7 (4.8)		1 26 (16.4) 1 26 (16.4)	•
10 32'(10M)			1.8 (.93)	3.2 (2.0)	6.1 (3.8)	12 (7.5)		1 26.9(16.7) 1 26 (16.2)	

LPFM-2 Watts Height	100 dbu 100 mv/m	80 dbu 10 mv/m	70 dbu 3.16 mv/m	50 dbu lmv/m	54 dbu .5 mv/m	40 dbu .1 mv/m	34 dbu .05 mv/m	60 dbu	clearance
	km(mi)	km(mi)	km(mi)	km(mi)	km(mi)	km(mi)	km(mi)	KVLT	KTXN
LPFM-2 c	lassificatio	n (continued)						
								60 dbi	jacent channel u + 80 dbu jacent channel u + 100 dbu
20		1.2	2.1	3.8	7.3	12.9	17		(16.4)46(28.6)
100'(30M)	(.75)	(1.31)	(2.2)	(4.5)	(8.0)	(10.6)	3d 26	(28.5)45(20.5)
30 150 ' (46M)	1.7 (1.1)	3 (1.9)	5.25 (3.27)	8.1 (5.0)		21.4 (13.3)		7(17.2)46.7(29) (16.4)45 (28.5)
50		2	3.4	6	10.5	20	24.8	24 28	(17.4) 47 (29.2)
150'(46M)	(1.24)	(2.1)	(3.73)	(6.53)	(12.4)	(15.4)	3d 26	(16.4) 45 (28.5)
LPFM-3 c 1 watt a 10 watts	lassification t 32' (10M) at 32' (10M at 32' (10M	n A	A cursory gl there is a r the 60 dbu e All data the time of opera	ance in the adiation of existing stat same as classions only.	100 dbu and these levels ion contour. s LPFM-2, sa	80 dbu colu ,and if so, we as these	mns wil re the dista facilitie	veal wh nce nec	, , ,

The 34 dbu value (50,50) is included as a point of reference only, for previously applicants were required to show this contour in their applications. It is considerd in literature prior to 1970 as sufficient for rural reception.

The two last columns referring to distance between the LPFM various class stations and the transmitter sites of KVLT and KTXN indicate the actual distance that is required to clear the 60 dbu contours of these stations. For LPFM station operating the first adjacent channel the proposed station must not overlap the 60 dbu existing 60 dbu contour with more than 54 dbu. For the second adjacent channel the contour maximum at the 60 dbu existing contour is 80 dbu, while the 100 dbu of the proposed station can meet , but not exceed the location of the existing 60 dbu contour. These are \$174.1204 protection of FM broadcasting stations and the FM translators.

The above section relative to this §74.1204 is read as follows: for a location of a second adjacent channel mu st be located 26 kilometers from KVLT transmitter location.

by the Commission to the station licensee that such interference is being caused, the operation of the FM translator or FM booster station shall be suspended within three minutes and shall not be resumed until the interference has been eliminated or it can be demonstrated that the interference is not due to spurious emissions by the FM translator or FM booster station; provided, however, that short test transmissions may be made during the period of suspended operation to check the efficacy of remedial measures.

[55 FR 50693, Dec. 10, 1990, as amended at 60 FR 55484, Nov. 1, 1995]

§74.1204 Protection of FM broadcast stations and FM translators.

(a) An application for an FM translator station will not be accepted for filing if the proposed operation would involve overlap of predicted field strength contours with any other authorized station, including commercial and noncommercial educational FM broadcast stations, FM translators and Class D (secondary) noncommercial educational FM stations, as set forth below:

(1) Commercial Class B FM Stations (Protected Contour: 0.5 mV/m)

Fre- quency separa Tion	Interference contour of proposed translator ste	Protected contour of commercial Class B station
Co-chan-	0.05 mV/m (34 dBu)	0.5 mV/m (54 dBu).
200 kHz 400 kHz 600 kHz	0 25 mV/m (48 dBu) 5 00 mV/m (74 dBu) 50 0 mV/m (94 dBu)	0.5 mV/m (54 dBu). 0.5 mV/m (54 dBu). 0.5 mV/m (54 dBu).

(2) Commercial Class B1 FM Stations (Protected Contour: 0.7 mV/m)

		•		
Fre- quency separa- tion	Interference contour of proposed translator sta- tion	Protected contour of commercial Class B1 station		
Co-chan- nel	0.07 mV/m (37 dBu)	0.7 mV/m (57 dBu).		
200 HHz	0.35 mV/m (51 dBu)	0.7 mV/m (57 d8u).		
400 kHz	7 00 mV/m (77 dBu)	0.7 mV/m (57 dBu)		
600 kHz	70.0 mV/m (97 dBu)	0.7 mV/m (57 dQ)		

(3) All Other Classes of FM Stations (Protected Contour: 1 mV/m

Fre- quency separa- tion	Interference contour of proposed translator sta- tion	Protected contour of any other station 1 mV/m (60 dBu).		
Co-chan- nel.	0.1 mV/m (40 dBu)			
200 kHz 400 kHz 600 kHz	0.5 mV/m (54 dBu) 10 mV/m (80 dBu) 100 mV/m (100 dBu)	1 mV/m (60 dBu). 1 mV/m (60 dBu). 1 mV/m (60 dBu).		

- (b) The following standards must be used to compute the distances to the pertinent contours:
- (1) The distances to the protected contours are computed using Figure 1 of §73.333 [F(50,50) curves] of this chapter.
- (2) The distances to the interference contours are computed using Figure la of §73.333 [F(50,10) curves] of this chapter. In the event that the distance to the contour is below 16 kilometers (approximately 10 miles), and therefore not covered by Figure 1a, curves in Figure 1 must be used.
- (3) The effective radiated power (ERP) to be used is the maximum ERP of the main radiated lobe in the pertinent azimuthal direction. If the transmitting antenna is not horizontally polarized only, either the vertical component or the horizontal component of the ERP should be used, whichever is greater in the pertinent azimuthal direction.
- (4) The antenna height to be used is the height of the radiation center above the average terrain along each pertinent radial, determined in accordance with \$73.313(d) of this chapter.
- (c) An application for a change (other than a change in channel) in the authorized facilities of an FM translator station will be accepted even though overlap of field strength contours would occur with another station in an area where such overlap does not already exist, if:
- (1) The total area of overlap with that station would not be increased:
- (2) The area of overlap with any other station would not increase;
- (3) The area of overlap does not move significantly closer to the station receiving the overlap; and,
- (4) No area of overlap would be created with any station with which the overlap does not now exist.

(d) The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

(e) The provisions of this section will not apply to overlap between a proposed fill-in FM translator station and its primary station operating on a first, second or third adjacent channel, provided That such operation may not result in interference to the primary station within its principal community.

(f) An application for an FM translator station will not be accepted for filing even though the proposed operation would not involve overlap of field strength contours with any other station, as set forth in paragraph (a) of this section, if the predicted 1 mV/m field strength contour of the FM translator station will overlap a populated area already receiving a regularly used. off-the-air signal of any authorized cochannel, first, second or third adjacent channel broadcast station, including Class D (secondary) noncommercial educational FM stations and grant of the authorization will result in interference to the reception of such signal.

(g) An application for an FM translator or an FM booster station that is 53 or 54 channels removed from an FM radio broadcast station will not be accepted for filing if it fails to meet the required separation distances set out in \$73.207 of this chapter. For purposes of determining compliance with \$73.207 of this chapter, translator stations will be treated as Class A stations and booster stations will be treated the same as their FM radio broadcast station equivalents. FM radio broadcast station equivalents will be determined in accordance with \$\$73.210 and 73.211 of this chapter, based on the booster station's ERP and HAAT. Provided, however, that FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements.

(h) An application for an FM translator station will not be accepted for filing if it specifies a location within 320 kilometers (approximately 199 miles) of either the Canadian or Mexican borders and it does not comply with § 74.1235(d) of this part.

(i) FM booster stations shall be subject to the requirement that the signal of any first adjacent channel station must exceed the signal of the booster station by 6 dB at all points within the protected contour of any first adjacent channel station, except that in the case of FM stations on adjacent channels at spacings that do not meet the minimum distance separations specified in §73.207 of this chapter, the signal of any first adjacent channel station must exceed the signal of the booster by 6 dB at any point within the predicted interference free contour of the adjacent channel station.

(j) FM translator stations authorized prior to June 1, 1991 with facilities that do not comply with the predicted interference protection provisions of this section, may continue to operate, provided that operation is in conformance with §74.1203 regarding actual interference. Applications for major changes in FM translator stations must specify facilities that comply with provisions of this section.

with provisions of this section.

(55 FR 50694, Dec. 10, 1990, as amended at 56 FR 56170, Nov. 1, 1991; 58 FR 42025, Aug. 6, 1993)

§74.1205 Protection of channel 6 TV broadcast stations.

The provisions of this section apply to all applications for construction permits for new or modified facilities for a noncommercial educational FM translator station on Channels 201-220, unless the application is accompanied by a written agreement between the NCE-FM translator applicant and each affected TV Channel 6 broadcast station licensee or permittee concurring with the proposed NCE-FM translator facility.

(a) An application for a construction permit for new or modified facilities for a noncommercial educational FM translator station operating on Channels 201-220 must include a showing that demonstrates compliance with paragraph (b), (c) or (d) of this section

9. The radio market of Victoria, Texas, ranks at the end of the list of radio markets, but is very media active with the following stations operating in the city, but, in some cases, licensed to another location:

FM Frequenc (Mhz)	y Call	Class	Power Height	Year Began	Notes
88.5		D A (cp)	.05 KW 1.0	1993	Religious,Amer- ican Family Radio*
89.3	KXBJ	C3	18 KW 300'(91M)	1993	Religious, contempor- ary music.*
90.1	KVRT	c2	40 KW 350'(107M	1993)	NPR*
91.5			pplicants) pplicant)		Religious
92.3	KVLT	A (cp)	3KW 6 kw	1991	Soft AC* local owner
93.3	KPLV	Cl	100 KW 450'(137M	1980) LMA	Country* Lic. Port Lavaca w/KVIC
95.1	KVIC	Cl	100 KW 500'(152M	1976)	AC*
98.7	KTXN	Cl	100 KW 254' (77M)	1965 L M A	Hispanic* w/KAVU(TV)
100.9	KEPG	A	3 KW 300'(91M)	1989	w KIXS Disco dance
104.7	K ZAM	C2	50 KW	1997	Country lic., Ganado
106.9	KLUB	C3	25 KW	1991	old hits w/ KIXS Lic. Bloomington
107.9	KIXS	Cl	100 KW	1980	country group owner-Capstar
other stations (FM 95.9	M) selling KHMC		and servi 25 KW	ng various 1992	sly area: lic. to Tejano, group ownr(Goliad)
97.7	KCVQ	C3	25 KW	1984	Oldies, group ownr(Cuero) sold w/ KZAM

10. Footnotes of previous page listing are as follows:

* satellitedelivered programming for majority, if not all, of

L M A = local marketing agreement providing that a bulk, if not all program time is brokered to another station. Stations with this arrangement in market are KPLV(to KVIC) and KTXN (to KAVU).

The market is served by two locally licensed fulltimer AM stations—KVIC on 1340 kilohertz and KNAL on 1410 kilohertz. Save for listing for matter of record only these stations do not figure into the study of this comment. There have beenno new AM radio stations licensed to Victoria since KNAL in 1949. The population is now estimated by the Department of Commerce at 61,000 in the city and 81,000 in Victoria County. There, however, have been two stations (AM) in the immediate adjacent counties that have been moved (KGUL at 1560 from Port Lavaca to Bellaire) or closed (KTXC at 1600 from Cuero) in the past two years. Two televison stations licensed to Victoria serve the market: KAVU (ABC on channel 25) and KVCT (Fox on channel 19), there are several low power television stations: channel 43 (Trinity as a religious), channel 51,53, and 55 (Telemundo), and channel 59 (KUNI owned by KAVU and operated from a separate site as an affiliate of Univsion). There is also a daily newspaper The Victoria Advocate.

11. The two stations principally in this study are KVLT and KTXN. The former is a class A with a construction permit for six (6)kilowatts and the latter a 100 kilowatt class Cl. This comment and reply comment will show that "the licensing of low power FM stations in the city and area will severely reduce the coverage area of these two stations — and any other FM stations in whose territory of 60 dbu contour these LPFM stations are placed. Commentator asks Commission to deny RM-9242 for this reason alone as found to be applicable to all likewise similarily situated stations and LPFM outlets.

FOOTNOTES

		rw	INOIES
*	1.	2 FCC Rcd. 6754, et. seq. (1987)	"Review of Technical and Operational Requirements: Part 73-C Noncommercial Educational FM Broadcast Stations"
*	2.	11 FCC Rcd.1997, et seq. (1996)	"ECI License Company, Inc. " In Re: KNRK, Camas, WA, BPH-940829IC.
*	3.	3 FCC Rcd.2478 (1988)	"In the Matter of Review of Technical Parameters for FM Allocation Rules of Part 73, Subp art B, Broadcast Stations."
*	4.	4 FCC. Rcd.3558, <u>et</u> . <u>seq</u> . (19739)	"In the Matter of Review of Technical Parameters for FM Allocation Rules of Subpart B, FM Broadcast Stations."
*	5.	2 FCC Rcd. 5694, <u>et</u> . <u>seq</u> . (1987) MM Docket 86-144	"In the Matter of Review of Technical Parameters for FM Allocation Rules of Part 73, Subpart B, FM Broadcast Stations."
*	6.	3 FCC. Rcd. 5762, <u>et.seq</u> . (1988) MM Docket 87-140	"In the Matter of Review of Technical and Operational Requirements Part 73-C Non- commercial Educational FM Broadcast Stations."
	7.	5 FCC.Rcd. 7213. et.seq. (1990)	Translators for FM is covered in article.
*	8.	¶74.120 4 CF R 47,1997 ed. (10-1-97 edition)	"Protection of FM broadcast stations and FM translators."
	9.	6 FCC Rcd.3417. et.seq.	FM class C3 is covered in article.
	10.	70 FCC. 2d at 972, <u>et.seq</u> . 31 FR 14755-56 (1966)	Minimum power for FM stations (educational) is covered.
	11.	FCC Rcd.at 7245, et.seq. (1996)	Grandfathered Short Spaced FM Stations is covered.
	12.		Referring to cited in text KJLH attempts to upgrade service.
*	13.	Decision CRTC 97-539 Ottawa, (5 September 1997)	"Radio 1540 Limited Toronto, Ontario- 199616348. License amendment."
*	14.	Public Notice CRTC 1993-95 Ottawa (28 June 1993)	"A Licensing Policy for Low-Power Radio Broadcasting."

* 15. IEEE Transactions on Broadcas-"Coverage and Interference for Second-Adjating, Vol. BC-26, no.4. cent Channel FM Broadcast Stations,"

(continued on next page)

- IEEE Transaction on Broadcas- by Haakinson, Eldon J. and Adams, Jean E. ting, Vol. BC-26, no.4. (December 1980)
 - of the Institute for Telecommunication Sciences, National Telecommunications and Information Administration, Boulder, Colorado, 80303.
- FCC 97-276 16. MM Docket 96-120 RM-7651 Report and Order (1997) at 11840, et. seq.

"In the Matter of Grandfathered Shorts spaced FM Stations."

3 FCC. Rcd. at 5941, et.seq. **.** 17. MM Docket 88-375 RM-6236, RM-6237

> Notice of Proposed Rule Making (1988)

- "In the Matter of Amendment of Part 73 of the Rules to provide for an additional FM station class (Class C3) and to increase the maximum transmitting power for Class A Stations."
- * 18. 3 FCC Rcd. at 4859, et.seq.

Memorandum Opinion and Order. (1988)

"In re Application of Ramapo Indian Hills Regional High School District for Modification of Noncommercial Educational Station WRRH(FM), Franklin Lakes, New Jersy." File no. BPED-821013AD

addendum 18

Most Recent FM Channel Rulemakings and site restriction considerations. Extracts from FCC allocations branch of Mass Media Bureau.

- 19. see number 18.
- ***** 20. 6 FCC Rcd., at 418 et.seq. Memorandum Opinion and Order (1991)

"In re Applications of Empire State Broadcasting Corporation (WWKB), Buffalo, New York. For Renewal of License. File No. BR-840201WQ, and Bursam Communications Corporation (WIHE), Mineola, New York. For a Construction Permit. File No. BP-840430AC.

Those of the above numbered that are marked with * are included, in the entirety in the addendum with the same number.

21.

"FM Stations versus Low Power FM Stations --Loss or Gain? Exhibits (1) to (17) are included and show the existing coverage of two Victoria, Texas stations KTXN and KVLT with proposed LPFM stations.

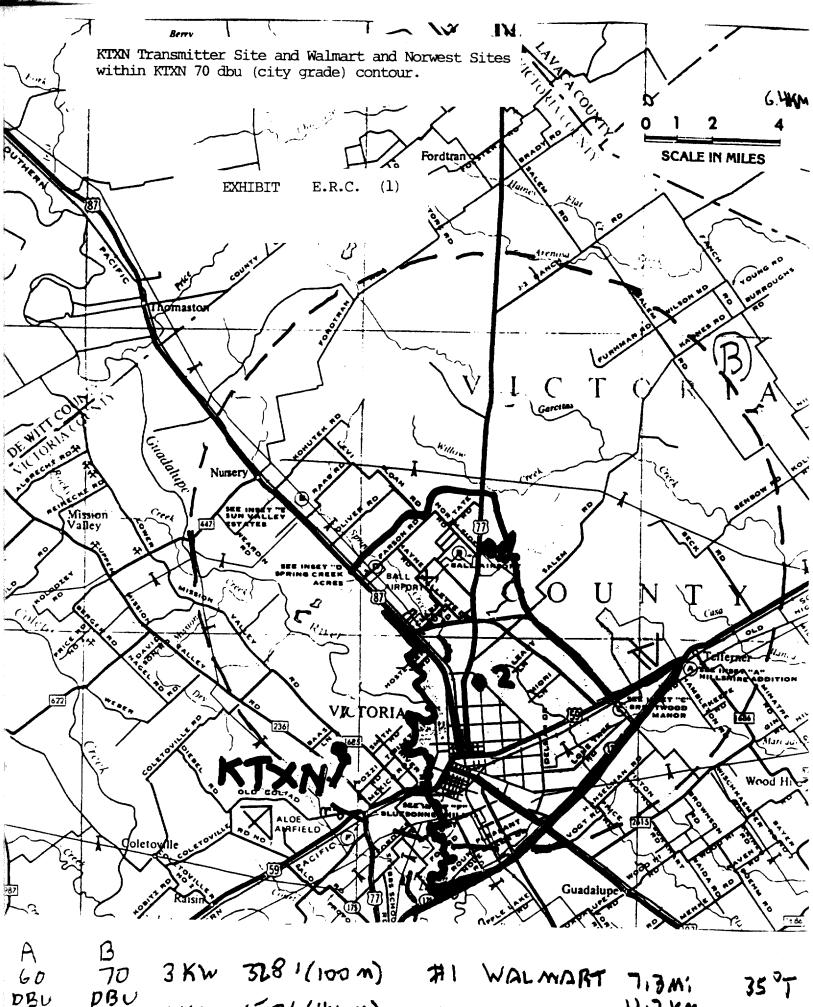
FM STATIONS VERSUS LOW POWER FM STATIONS -- LOSS OR GAIN? ADDENDUM 21

- 1. Commentator will show in this 17 series of exhibits labeled E.R.C. for Engineering Reply Comments that there will be a tremendous losss of coverage for both existing stations and proposed low power FM stations to be built on the second and third adjacent channels with powers from 1 watt to 3,000 watts and antenna heights from ground level to 328 feet (100 meters).
- 2. The criteria for interference are found in §74.1204 of the Code of Federal Regulations, Part 47, chapter 74,1997 edition. These are used for portection to existing stations and protection to them from new stations both FM of all classes and translators for co-channel, first adjacent channel (±200 kilohertz from the carrier frequency of the existing to be protected station), second adjacent channel (±400 kilohertz from the station, and also third adjacent channel (±600 kilohertz from the station. Where there is an invasion of the existing station 60 dbu (protected contour per ¶73.333 50,50 curves) by a new station the area in question is shown and tallied to amount of loss but not allocated as to existing or new station.
- 3. The two victim stations are located in Victoria, Texas. KTXN is a 100 kilowatt class Cl, while KVLT is a 6 kilowatt class A. The assumed transitter sites are real locations with available antenna placement. The contours of 100, 80, 70, and 60 dbu level are shown, however all other pertinent contours are shown in the table one and can be matched with addendum number eight (8) which is a part of the Commission rules §74.1204 for required spacings according to contours. These contours are required for FM stations and tranlators.

INDEX OF EXHIBITS

- E.R.C. (1) KTXN transmitter site with Walmart and Norwest sites along with Walmart 70 dbu coverage contour.
- E.R.C. (2) Walmart Impact (on KTXN)
- E.R.C. (3) KTXN transmitter site and Norwest site and its 100, 80, 70 and 60 dbu contours.
- E.R.C. (4) Norwest Impact (on KTXN).
- E.R.C. (5) Walmart operation and coverage contours of 100, 80, and 70 dbu as contained within the KTXN 70 dbu (city grade) contour.
- E.R.C. (6) Proposed Edna, Texas LPFM-1 3 KW 300' impace on KTXN 60 dbu.
- E.R.C. (7) Norwest alternative LPFM 100 watts and 100 feet (32M) coverage contours of 80, 70, and 60 dbu within KTXN 70 and 60 dbu contours.
- E.R.C. (8) KTXN 100 and 80 dbu contours as impacted by Walmart 100 and 80 dbu contours.
- E.R.C. (9) KTXN 100 and 80 dbu contours as impaced by Norwest 100 and 80 dbu contours with 1,000 watts at 150 feet.
- E.R.C. (10) KTXN contours of 70 and 60 dbu (protected).
- E.R.C. (11) KVLT city of Victoria coverage and 70 and 60 dbu contours with proposed LPFM sites at Walmart and Norwest Bank.
- E.R.C. (12) KVLT victim station interference from Norwest proposal. ((600 KHZ).
- E.R.C. (13) KVLT victim station interference from Norwest at 400 KHZ.
- E.R.C. (14) KVLT victim station intereference from Norwest at 600 KHZ with all contours of Norwest shown.
- E.R.C. (15) KVLT victim station and areas of interference within its 60 dbu protected contour from Walmart at ± 400 KHZ.
- E.R.C. (16) KVLT victim station and areas of interference withing its 60 dbu contour from Walmart at \pm 600 khz.
- E.R.C (17) Summary of exhibits (1) to (16).

Recommendations



DBU 11501(46M) #2 NORWEST 47 Mi 650T

WALMART IMPACT

EXHIBIT E.R.C. (2)

034. 7.8KM 3KM 3581

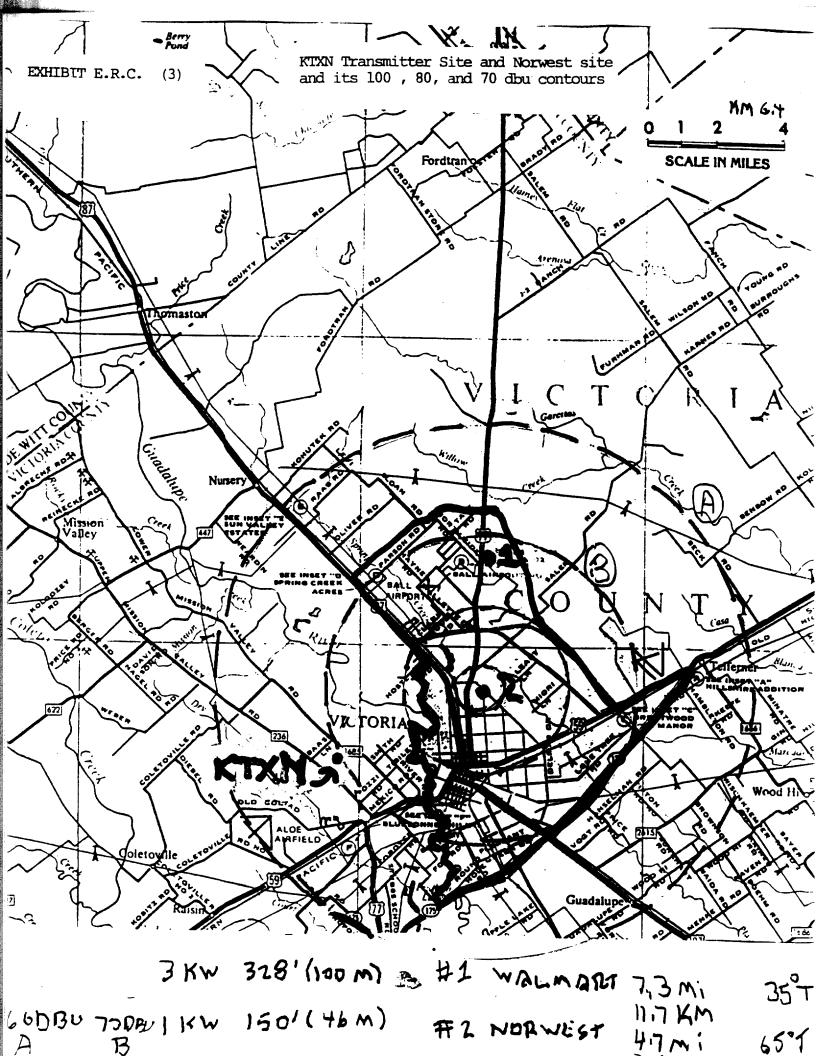
LOCATED 7.3Mi 35°T

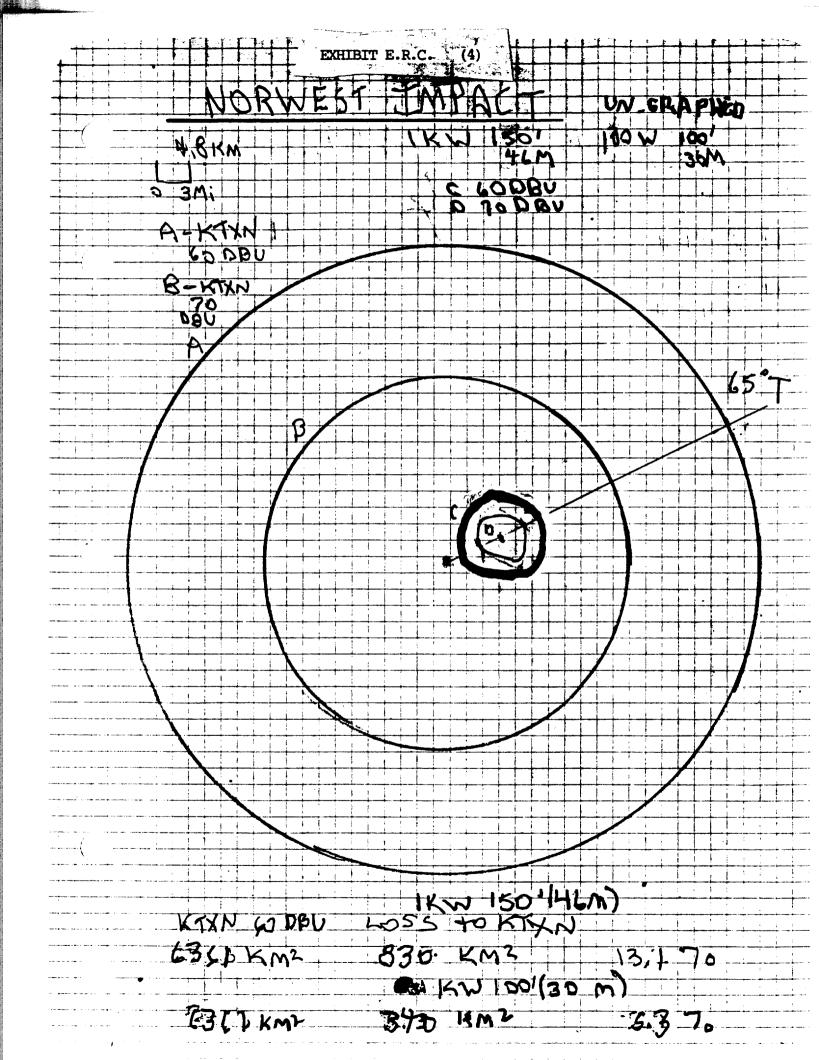
35°T

D 1008U

C 6008U

KTXN 60 DBU AREA LOST 1530 M12 445 M12 29 70 3963 KM2 1153 K.3





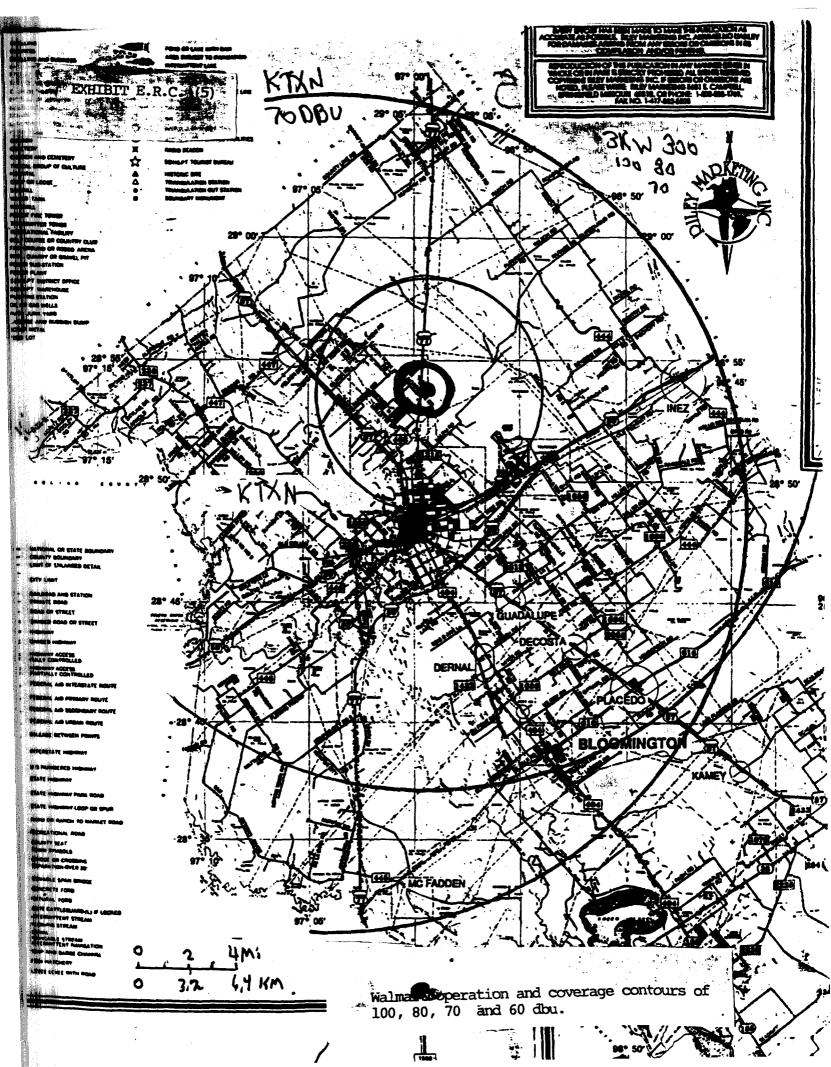


EXHIBIT E.R.C. (6)

Proposed Edna, Texas, LPFM at 28 Mi (45 km) at bearing of 65° true. and impact on KTXN $\,$ 60 dbu contour.

3KM 300' KAXN 60 DBU C 47/MI 700BU LODBU D 8.45 Mi

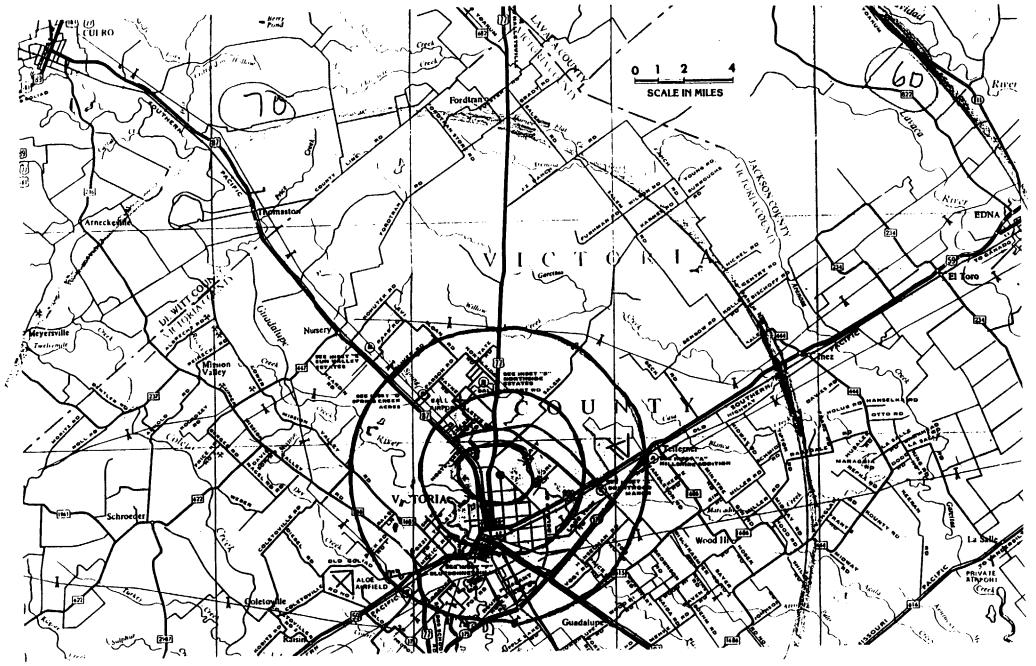
KEN GO DBU 2457 M. 3 631B KM2

LOSS to KTXN

358 - M. 2 14,670 1927 Km2

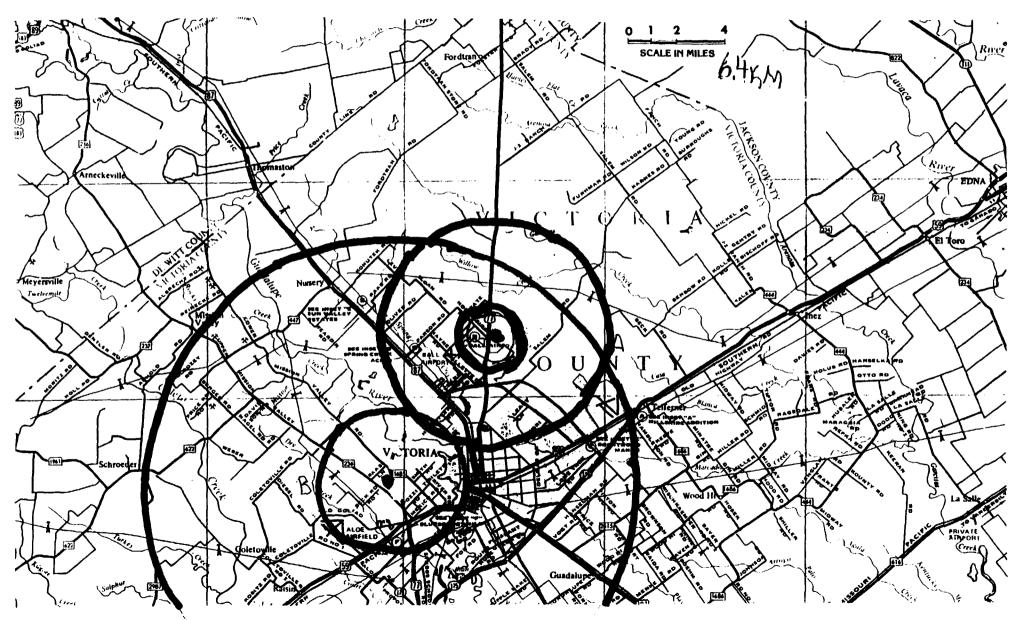
LOSS TO EDNA

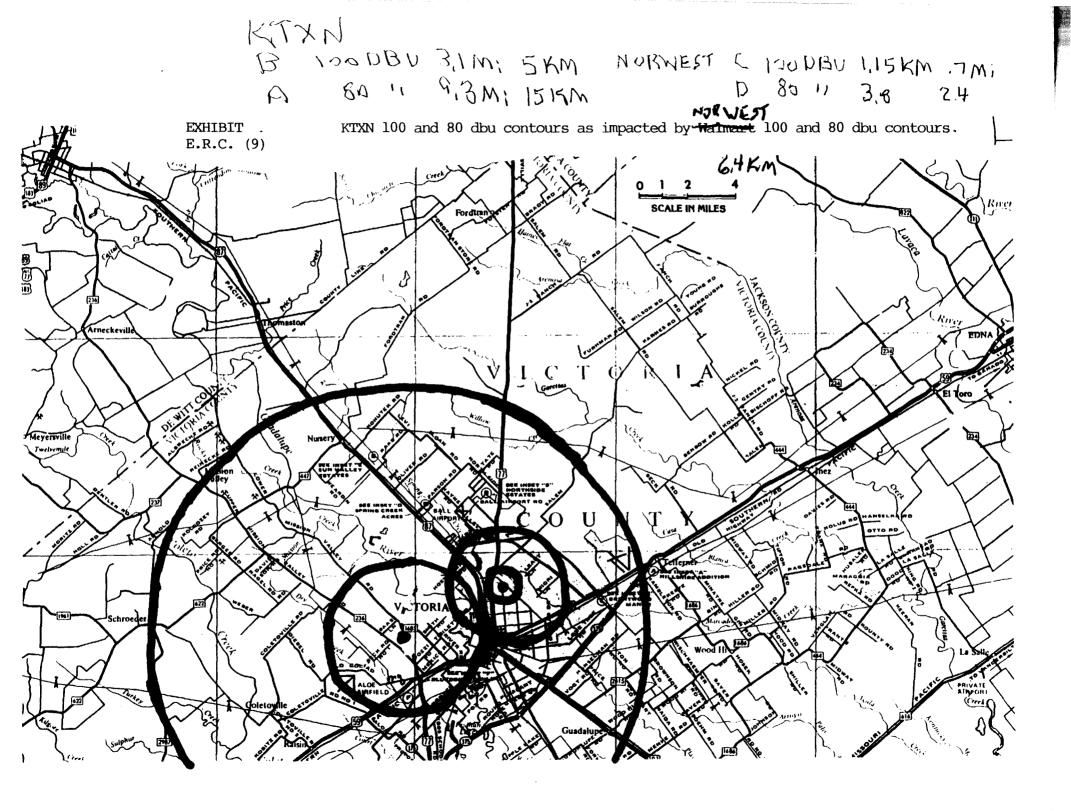
50%

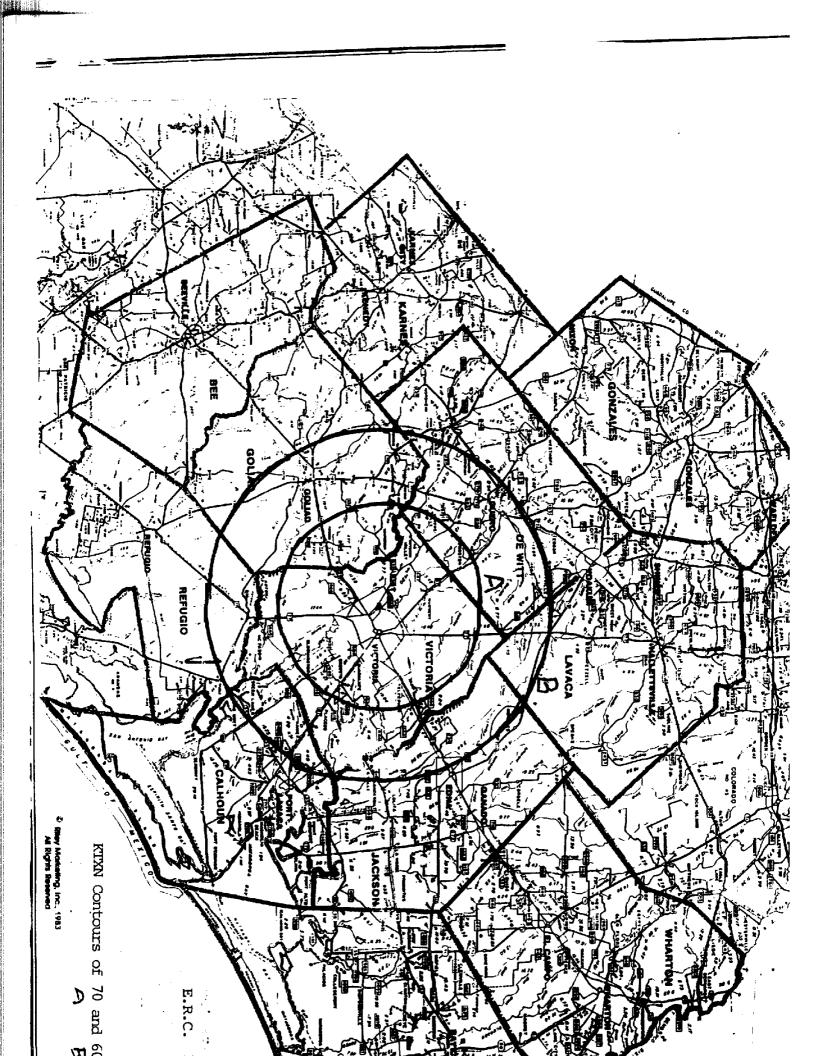


B 100 31 5 km 15 M/AI MART 100 135 D 22 A 80 93 15 km

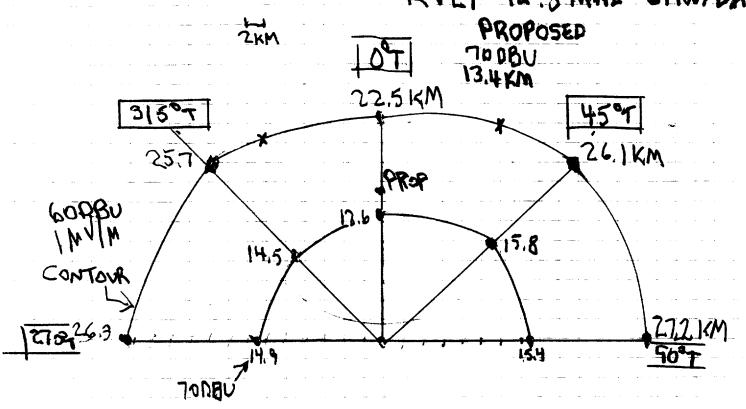
EXHIBIT E.R.C. (8) KTXN 100 and 80 dbu contours as impacted by Walmart 100 and 80 dbu contours.

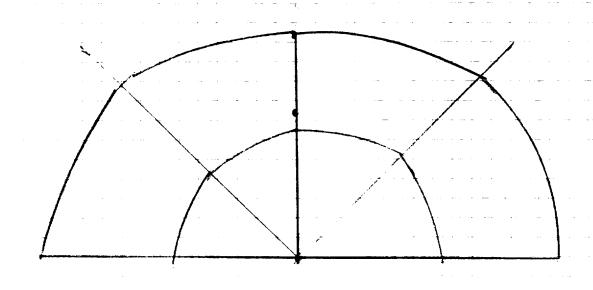






KYLT 92.3 MHZ GKW/DA





U SING 74,1204 CF: TERIA

157 KM

57 15/1.

137 3KW 700' +2 CHWLS 400 KH2

+3 CANLS 600 KH2

Mott on

